

WHAT IS CLAIMED IS:

1. In a door comprising a flexible curtain closure member having a transverse bottom edge and opposed side edges;

5 spaced apart guide tracks for guiding the side edges of said curtain for movement between open and closed positions of said door; and

10 opposed windlock members supported on said curtain adjacent opposite side edges thereof and adapted for movement within said guide tracks for retaining said curtain edges in said guide tracks, at least one of said windlock members being configured for response to a predetermined deflection of said curtain to exit one of said guide tracks while an opposite one of said windlock members is configured to retain said curtain in an opposite one of said guide tracks whereby said curtain is relieved of forces acting
15 thereon by exiting said one of said guide tracks along one of said side edges.

2. The door set forth in Claim 1 wherein:

said at least one windlock member includes surfaces formed thereon for engagement with said one of said guide tracks in response to deflection of said curtain and
5 operable to provide for said at least one windlock member to exit said one of said guide tracks at a predetermined amount of said deflection.

3. The door set forth in Claim 2 wherein:

plural windlock members are secured to said curtain and are spaced apart along said side edges, respectively.

4. The door set forth in Claim 2 wherein:
said opposite one of said windlock members includes
surfaces formed thereon engageable with said opposite one of
said guide tracks to retain said curtain in said opposite
5 one of said guide tracks.

5. The door set forth in Claim 4 wherein:
said windlock members are disposed on opposite ends of
an elongated elastically deflectable strut secured to said
curtain.

6. The door set forth in Claim 5 wherein:
said strut comprises opposed strut parts secured to
each other and to said curtain with said curtain disposed
between said strut parts.

7. The door set forth in Claim 6 wherein:
each of said strut parts includes a planar surface and
opposed boss portions opposite said planar surface.

8. The door set forth in Claim 7 wherein:
said boss portions include surfaces inclined with
respect to said planar surface to minimize wear and bulging
of said curtain when being rolled onto and off of a drum.

9. The door set forth in Claim 5 wherein:
said windlock members are formed as separate parts and
are removably secured to said strut by fastener means,
respectively.

10. The door set forth in Claim 1 including:
a bottom bar assembly secured to said curtain at said bottom edge, said bottom bar assembly comprising a plurality of flexible bag members filled with particulate material and
5 secured to said curtain adjacent said bottom edge substantially side by side across a major portion of said bottom edge.

11. The door set forth in Claim 10 including:
an obstruction detector secured to said curtain at said bottom edge and adjacent said flexible bag members.

12. The door set forth in Claim 1 including:
curtain stiffening means secured to said curtain adjacent said bottom edge for stiffening said curtain against lateral deflection while allowing deflection of said
5 curtain substantially vertically within a normal plane of said curtain.

13. The door set forth in Claim 12 wherein:
said stiffening means comprises interconnected link members extending across said curtain adjacent said bottom edge and secured to said curtain, respectively.

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14. The door set forth in Claim 10 wherein:
said bottom bar assembly includes a flexible outer envelope member disposed over said bags and secured to said curtain.

15. The door set forth in Claim 1 including:
a drive motor unit drivingly connected to a drum for rolling said curtain there onto to open said door, including a right angle gear reduction unit and an output shaft adapted to be connected to a distal shaft part of said drum in driving engagement therewith, said drive motor unit being mountable on a frame member of said door.

16. The door set forth in Claim 1 including:
a slot formed in said one of said guide tracks and a guide surface disposed adjacent said slot for recapturing said at least one windlock member in said one of said guide tracks.

17. The door set forth in Claim 1 including:
a windlock member recapture assembly disposed adjacent said one of said guide track at one end thereof and including at least one recapture guide for guiding a windlock member for recapture within said one of said guide tracks.

18. The door set forth in Claim 17 including:
opposed recapture guides for guiding a windlock member and a curtain edge for recapture within said one of said guide tracks from opposite sides thereof.

19. The door set forth in Claim 18 including:

at least one deflectable guide member associated with recapture assembly and forming a guide path coincident with said one of said guide tracks during normal movement of a curtain edge within said one of said guide tracks, said
5 deflectable guide member being operable to deflect in response to movement of said curtain edge and said windlock member for reinsertion of said curtain edge within said one of said guide tracks.

20. A flexible curtain door for forming a closure over an opening comprising:

an elongated flexible curtain including a transverse bottom edge and opposed side edges;

5 a door frame including opposed side edge guide tracks comprising members forming opposed slots for receiving side edges of said curtain therein; and

plural spaced apart elastically deflectable combination stiffening strut and windlock members secured to said
10 flexible curtain at spaced apart points thereon, said combination strut and windlock members including opposed windlock parts disposed in said guide tracks and adapted to retain said curtain in said guide tracks, said windlock parts in one of said guide tracks being configured to
15 release said curtain from said one side track, and said windlock parts disposed in the other guide track being configured to retain said curtain in said other guide track in response to forces acting to displace said curtain from said guide tracks.

21. The door set for in Claim 20 including:

means forming a recapture slot for reinserting said windlock parts within said one guide track in response to movement of said curtain with respect to said frame.

22. In a rollup door comprising a flexible curtain closure member having a transverse bottom edge and opposed side edges, said curtain being adapted to be wound on and unwound from a rotatable drum;

5 spaced apart guide tracks for guiding said side edges of said curtain for movement between open and closed positions of said door;

at least one combination strut and opposed windlock members connected to said curtain, said windlock members
10 being disposed adjacent said opposed side edges and adapted for movement within said guide tracks, respectively, for retaining said curtain in said guide tracks, one of said windlock members being responsive to a predetermined deflection of said curtain to exit one of said guide tracks
15 while the other of said windlock members retains said curtain in the opposite one of said guide tracks whereby said curtain is relieved of forces acting thereon by exiting said guide track along said one side edge of said curtain; and

20 said one windlock member includes surfaces formed thereon for engagement with at least one of opposed flanges of said one guide track for deflecting said one flange in response to deflection of said curtain to provide for said one side edge to exit said one guide track

23. A flexible curtain door for forming a closure over an opening comprising:

an elongated flexible curtain including a transverse bottom edge and opposed side edges;

5 opposed side edge guide members for guiding said side edges of said curtain; and

10 a flexible bottom bar assembly secured to said curtain at said bottom edge and comprising a plurality of flexible bags filled with particulate material and secured to said curtain adjacent said bottom edge substantially side by side across at least a portion of said bottom edge.

24. The door set forth in Claim 23 wherein:

said bottom bar assembly includes a flexible outer envelope member disposed over said bags.

25. The door set forth in Claim 23 including:

5 curtain stiffening means secured to said curtain adjacent said bottom edge for stiffening said curtain against lateral deflection while allowing deflection of said curtain substantially within a normal plane of said curtain.

26. The door set forth in Claim 25 wherein:

5 said stiffening means comprises pivotally interconnected link members extending across said curtain adjacent said bottom edge and secured to said curtain, respectively.

27. The door set forth in Claim 23 including:

an obstruction detector secured to said curtain at said bottom edge and adjacent said flexible bags.